

Operating instructions

Art-Nr.: 3.150.0110



CARO⁺
Vision III

Oyster[®]
Vision III

Cytrac^{DX}
Vision III



tenHaaft[®]

Innovative Mobile Technology

Version: 03/2015

Language: English



Table of contents

General information

Introduction	3
Proper use and operation	4
Safety instructions	5

Controls

The first steps	7
Switching ON / switching OFF	8
Menu operation	9

Operating the system

Menu tree	10
Automatic search	11
SAT mode	12
Entering the position	12
Manual search	12
Main menu – Settings	14
Restarting the system	14

General settings

Receiver control	15
Language	16
Dimmer	16
Service INFO	16
AUX relay – switched terminal for TV set	17

Satellite settings

Search satellite	18
DiSEqC programming	18

Appendix

What is DiSEqC?	21
Notes on protection of the environment	22
Contact and Service	22

Introduction

These instructions describe the functions and operation of the automatic satellite system. Installation instructions can be found in the installation manual supplied with the system.

Correct and safe operation of the system can only be ensured by following the two sets of instructions, both for installation and operation.

Your automatic satellite system is an intelligent satellite-TV reception system which can align itself towards a preset satellite automatically as long as the system is located within the footprint of this satellite.

Scope of supply: Control device; control unit; exterior unit with antenna – with optional SKEW pivoting unit for optimised reception;

Please ensure that the system always has a clear view to the south. In Europe, all satellites are in an approximate position in the south.

If the satellite's signal beam is interrupted by obstacles such as mountains, buildings or trees, the automatic aiming will not function and no TV signal will be received.

The first few pages of these instructions contain information about using the general functions of your system, followed by an explanation of all the adjustment options.


Proper use and operation

This product has been designed for use in a fixed installation on mobile homes or camper trailers with maximum speeds of 130 km/h.

It is designed to automatically aim a parabolic antenna mounted on a stationary vehicle at geostationary television satellites transmitting directly to Europe.

Power to the system is supplied by a standard vehicle electric system with a rated voltage of 12/24 Volt DC. Switching-mode power supplies must not be used for the installation of the system in camper trailers. Use of the equipment for any other purpose than the one specified is not permitted.

Please also note the following instructions from the manufacturer:

- The equipment must only be installed on hard vehicle roofs which are sufficiently strong and inherently stable. All of the relevant and approved guidelines of the automotive industry must be observed and complied with.
- The product does not require any regular maintenance. The housings and enclosures must not be opened. Inspection and maintenance may only be performed by a qualified professional.
- Do not clean your mobile home with the mounted satellite system in a single-bay or drive-through car wash or with a high-pressure cleaner.
- It is not permitted to change the overall device by removing or adding individual components.
It is not permitted to use other parabolic antennas or LNBs than those installed originally at the equipment.
- Installation must only be performed by sufficiently qualified personnel. All instructions in the supplied Installation Instructions, which form part of the Operating Instructions, must be carefully followed. In the event of any problems, or if you are unsure about anything, please contact the manufacturer directly or a specialist workshop which is approved by the manufacturer.
-  Retract the system during periods of strong wind or storm.

Safety instructions



In order to ensure that your Vision system works properly, you must ensure that it is correctly connected to the ignition of your vehicle (see Installation Instructions).

When it is correctly installed, the antenna automatically returns to the park position when the ignition is switched on and locks itself there. If the system cannot fully retract or cannot retract at all due to a fault, then it is your responsibility as the driver of the vehicle to check that the antenna is safely and properly stowed.



The driver of the vehicle must inspect the external unit before driving off to ensure that it is fully retracted.

Please note also that different legal requirements apply to the operation of electrical and electronic equipment in different countries. As the user of this equipment, you yourself are responsible for ensuring compliance with the relevant laws and regulations.

Your Vision system is approved by the manufacturer for connection to standard commercially available rechargeable lead batteries with a rated voltage of 12V/24V DC and a rated capacity of at least 50Ah.

Connection to any other type of battery system can lead to irreparable damage to the battery system or the Vision system or to the release of flammable or toxic gases or to the self-ignition of the unsuitable battery system.


The manufacturer accepts no liability for direct or indirect damage or for consequential damage to the system itself, to battery systems, motor vehicles or other equipment or goods resulting from the connection of unsuitable battery systems or installation/wiring errors.





Safety instructions

Note on Safety – Oyster Vision III




Stop function via the control device and the remove of the power supply during maintenance.

Press the Selection button  on the keypad on the control device to stop the movement of the antenna. In this stop mode no receiver DiSEqC control commands are executed more.

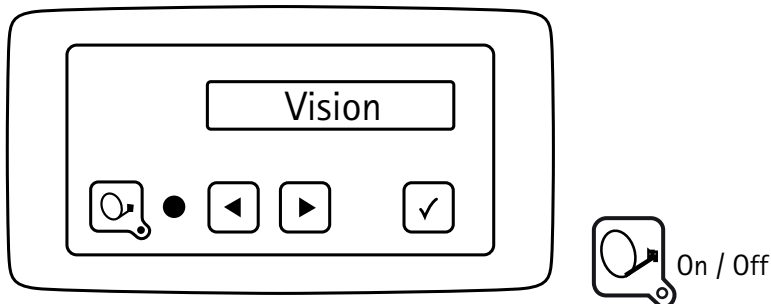
To abolished the stop function scroll via   on the keypad to select „Auto Search“ and pressing the Selection button . Or by press the the On / Off button , which causes that enters the antenna.

During maintenance on the antenna system it is essential, that the operating voltage of the complete system, receiver and VISION III control box, are off.

If the system is reconnected to power, the display of the control panel „**activate**“. Only after pressing the On / Off button  on the control panel, the antenna can extend again. Please note that commercial receivers depending on the type can take up to 90 seconds to initialize.

The first steps

All controls are handled via the control device.



All controls are handled via the control device.

You may choose any location you like to install the control device, but please bear in mind that it is not waterproof. You may still need to remove the protective film from the display.

The display of the control device will show the various current operating modes of the system. We recommend that the control device is positioned in an accessible location where it is easy to see this information.

The display is illuminated, so it is not a problem if it is installed in a very dark location.

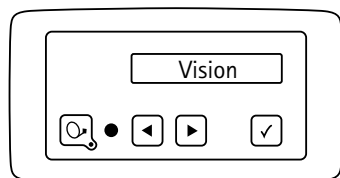
To ensure safe and reliable operation of the system, please make sure the external unit is in rest mode before disconnecting the control device. Check that no text is displayed on the control device – this is an indication that the system is in rest mode.

We have produced a separate manual – the „Installation Instructions“ – which covers the installation, wiring and initial taking into operation of your Vision system.

In its supplied state, a search satellite for the automatic search is already configured in your Vision system's control unit.

A satellite swap is performed by changing the search satellite or via the DiSEqC signals of the receiver. The signal or DiSEqC ID of the receiver must comply with the ID list saved in the control unit of your Vision system.
See section: Satellite settings / DiSEqC ID.


Switching ON / switching OFF



On / Off -

System starts search from last position


There are two ways of switching the Vision III antenna system on and off:

The system can always be switched on and off via the button  on the control device or by switching the receiver on and off. If you want the system to respond when switching the receiver on or off, then menu item „Receiver control“ must be enabled. See section „Receiver control“.

After switching on the system, the antenna unfolds and returns to the last position in which a satellite was received.

If the vehicle position has changed since, the system will not receive any signals and the automatic search is started.*

To switch the system off, press button  again to retract the system and send it into rest mode.

If you would like to stop the movement of the antenna while it is opening or closing, simply press  to instantly stop the antenna.

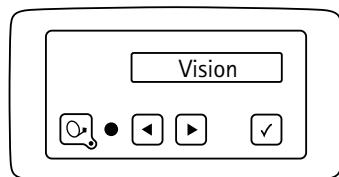
Notes

Please remember to switch on your TV receiver and your TV set or flat-screen display.

If the message „Manual search“ is displayed after the antenna has opened, and if the system does not commence the search automatically, then the system was being operated in manual mode when it was last switched off.

Please refer to sections „Automatic search“ and „Manual search“.

Menu operation





On / Off






Selection button




Scroll


The arrow keys  and  are used to navigate through all levels of the menu.

Using these keys, select a submenu, function or setting.

Press  to enable the displayed menu item. Within the settings, you can change the displayed values within the set limits by pressing the arrow keys  and .

Then press  to accept the set value and return to the higher-level menu.

Use button  to return to the selection level without saving the data.

By selecting menu option „Return“ and by pressing  you can go back up one level in the menu layout.

Menu tree

The functions of the keys are explained in section „Menu operation“.

Menu item display	Function
Automatic search	Press <input checked="" type="checkbox"/> to start the automatic search for the satellite specified in menu option „Search satellite“
Swap satellite	Press <input checked="" type="checkbox"/> to select one of four different satellites
SAT mode	Press <input checked="" type="checkbox"/> to display the search satellite of the automatic search
Selection of position	Selection of a position from a list; speeds up the finding of the search satellite
Manual search	Manual control of the antenna dish Signal optimisation
Main menu	Press <input checked="" type="checkbox"/> to access the settings levels
General settings	Press <input checked="" type="checkbox"/> to access the submenu options of the General settings
Language	Language menu
Dimmer	Display lighting
Receiver control	Receiver-controlled antenna start: „Auto off“; „Standby“; „Sleep“
Service INFO	Serial number, antenna type, revision no. and error state
Back	Press <input checked="" type="checkbox"/> to return to main menu
Satellite settings	Press <input checked="" type="checkbox"/> to access the submenu options of the „Satellite settings“ level
Search satellite	Specification of the search satellite for the automatic search
DiSEqC on/off *	View DiSEqC function on/off. Satellite change via receiver
DiSEqC on < > *	DiSEqC function on / off
DiSEqC V3-ID *	Viewing or assigning a VisionIII DiSEqC ID to a specific satellite,
e.g. ASTRA 1 *	Select satellite
DiSEqC V3: <001> *	Setting the DiSEqC ID number
DiSEqC Rec-ID *	Receiving the receiver DiSEqC ID
DiSEqC Rec: 001 *	Display of receiver DiSEqC ID
DiSEqC Data *	DiSEqC transfer protocol
D: 00 00 00 00 *	Display of the DiSEqC transfer protocol
SAT-Position	Programming the swap satellites
SAT-position 1-4	Four SAT-positions can be programmed
ASTRA 2	Selection: 16 satellites
Back	Press <input checked="" type="checkbox"/> to return to main menu

Automatic search

After switching on the system with button , the antenna opens and moves into the position in which a satellite was last received.

If no satellite is found, the system starts the automated search for the selected satellite.

If you wish to select another satellite, please refer to section „Search Satellite“:
Selecting a satellite for automatic search and Satellite swap

When the search satellite is found, the search function stops and the TV signal is looped through. A satellite search usually takes approx. 30 seconds, but the search may take longer depending on the position of the parked vehicle.



If a reference transponder on the satellite fails or if it cannot be received at your current location, the system will start a teach-in routine that may once take 15 - 25 minutes.

If no TV picture appears after this extended search period, you are most likely located in an area in which the selected satellite cannot be received or the signal beam is obstructed.

In this case, the message „No satellite found“ appears in the display of the control device.

The automatic search function always assumes that your vehicle is perfectly level. If this is not the case, then the search period may be extended.


If the antenna is already open, the automatic search function is started as follows:

- Press  until the message „Automat. search“ appears in the display.
- Press .





In general, the satellite receiver must not be connected or switched on to perform a satellite search. However, if no receiver is switched on when the automatic search ends, a corresponding message is shown in the display to alert you that no image or sound signals are received.

SAT mode

SAT mode

This display indicates that the system is in signal reception mode. Press  to display the currently received satellite.

Entering the position

„Entering the position“ is a selectable option of the main menu. Press  to access a list of countries, and use the buttons   to scroll the list and use  to select your location. This speeds up the satellite search.

The antenna is then optimally adjusted for the satellite search from your current position (LNB and inclination angle).

Swap satellite

Run a faster satellite change with the keypad.

In the „swap satellite“ - Menu can be programmed up to four request satellites. Then these satellites can directly be adjusted with the OK - button.

The programming of the desired satellite to the four positions in the „SAT-change“ - menu is done with the setting option „SAT“ position.

Adjustment path: „Main Menu“, „Settings SAT“ and „SAT“ position.

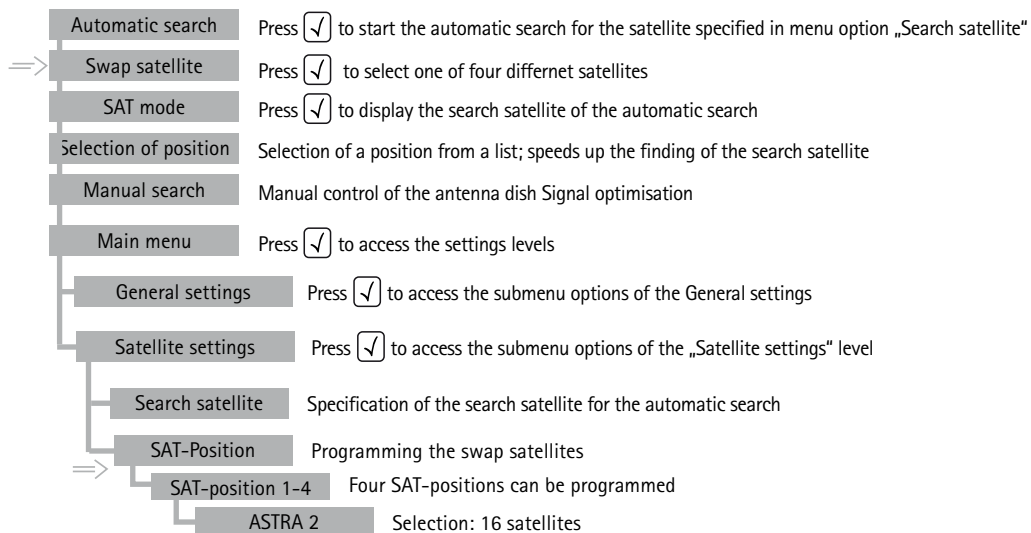
Set after a position(1 ... 4), is here a satellite from the satellite list selected and stored.

At a swap satellite the satellite positions are directly approached.

The requirement for direct satellite positioning is, the new position was set before and is known. Otherwise, the antenna restrained like the „automatic search“.

First it moves to the X position „0“ and from here it search the adjusted satellite.

Programming the swap satellites:



Manual satellite search

The manual search is usually used to fine-tune the antenna to a found satellite in case of adverse reception conditions.


If you wish to receive signals from a new satellite that is not yet stored as a search satellite in the control unit, the manual search function can be used to tune the system to this satellite.



Firstly, switch your receiver to a preset station that is transmitted by the satellite selected.

At the control device, press  repeatedly until the message „Manual search“ appears in the display.

Programming sequence for function **Manual search**:



Manual search:


Press  to access.

Press  or  to select an option.

Press the sat button  to go back one level.

Elevation „up / down“: Press  to edit the option.

Tilt angle: Press  or  to edit the data.

Press  to return.

Azimuth „left / right“: Press  to edit the option.


Pan angle: Press  or  to edit the data.

Press  to return.


SKEW „LNB Grad“: Press  to edit the option.

LNB skew angle: Press  or  to edit the data.


Press  to return.

Save „store ?“: Press  to save the settings and return to sat mode.


Using the arrow keys, adjust both system axes and the skew angle to the strongest receivable signal.

After setting the antenna to an optimal reception, select the „store“ function of option „store ?“ and press  again to store this position.

The stored position will then be resumed the next time the system is switched back on. Even if no satellite signal is received in this position, the automatic search will not be started if you have stored a manually set position before.

If you wish to carry out an automatic search, start it via the general menu. If the „Manual search“ is cancelled by pressing  then the current position is not stored. The system returns to the default position.

Main menu – Access to settings





The „Main menu“ is a selectable option of the general menu. Press  in the option Main menu to access the settings levels.

These levels provide the options „Settings“ (General information)“ and „Satellite settings“. Please refer to the corresponding sections.


Restarting the system

As with any other computer-controlled device, it is possible for the software in your Vision system to “crash”. This may be caused by external influences, e.g. strong electromagnetic interference, or previously undetected software errors.





If you think that your Vision system responds incorrectly or if it does not respond at all, then we recommend restarting the microprocessor. This can be done in two different ways and in any state of the system:

- If the fuse in the wiring harness is easily accessible, remove the fuse and re-install it after a few seconds.
- RESET function:
To reset the Vision III control unit and the antenna, press all four buttons (sat key , both arrow keys   and the OK key ) simultaneously for approx. 2 seconds until the revision number (e.g. „Rev: EU 1.02 2“) is displayed.

In both cases described above, your Vision system will perform an internal restart.

If the system is open, it will now close. After restarting, the system is in rest mode and can be started in the usual way using button .

Receiver control

Access via level 1 „Main menu“  and  and  „Settings“ 

Receiver control: With this menu option you can configure the optional settings for the system control by the receiver. By selecting the mode, you can determine if and how the system is started by the receiver.

Mode 1 „Auto off“ (default setting)

- This mode is recommended for receivers that never switch off the LNB voltage, or if you wish that the receiver shall not control the antenna.
- The system can then be switched on and off only at the Sat button of the control device.

Mode 2 „Auto Stby“

- This mode is recommended if the LNB voltage is switched off when the receiver is in standby mode.
- The system can be switched on and off via the satellite receiver and at the Sat button of the control device.
- The receiver is switched on. Depending on the model, a receiver may need up to three minutes to boot. The antenna will open only after this boot period to search for the satellite.
- The receiver is switched off: The antenna closes and switches into standby mode.

Mode 3 „Auto Sleep“

- This mode is recommended if the receiver does not provide voltage to the LNB when in standby mode.
- The system can be switched on and off via the satellite receiver and at the Sat button of the control device.
- The receiver is switched on: If the antenna was closed, it will open and search for the satellite selected. If the antenna was already open, it will remain in this position. If no signal is received in this position, the system will search for the satellite selected.
- The receiver is switched off: The system switches into standby mode with the antenna remaining in its current position (sleep mode).
- In „Auto Sleep“ mode the antenna can be closed by pressing the Sat button of the control device.



Note! The vehicle's switched ignition voltage via terminal 15 has ultimate priority. When the ignition is switched on or if the engine is started, the antenna will always close and can only be operated again after the ignition has been switched off.

Language

Selection of the language for the texts displayed on the control device.

Dimmer

Backlighting:

The backlighting can be adjusted in 16 increments between off (dark) and maximum brightness.

The lighting period cannot be adjusted, and the backlighting switches off after approx. 1.5 minutes to save power. The display remains active. The backlighting is switched on with every time a button is pressed or is extended by the fixed period.

Service info

This menu item provides information that is relevant for servicing purposes.

- Revision no.
- System type
- Error state
e.g. „E*1-----“

AUX relay – switched terminal for TV set

The Vision III control unit provides a switched terminal that can be used to switch the TV set's power supply on and off.

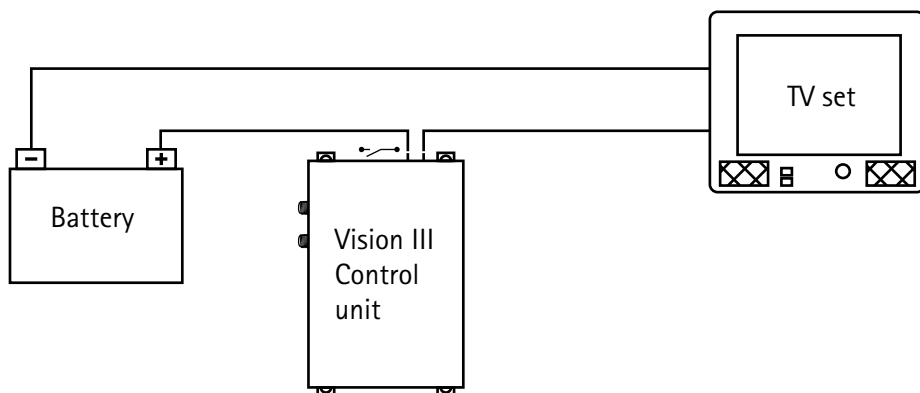
This switched terminal is always closed when the Vision system is in operation and opens when the system is switched off (standby or sleep).

The TV set is then always disconnected from the on-board electric system when the Vision system is not in operation, thereby saving standby power.





Caution:

- The switched terminal does not represent a power supply! The TV set must be supplied with power via a separated cable. Never branch the power for the TV set off the Vision system's power supply! (Be sure to observe the installation instructions!)
- Some TV sets are fitted with an integrated satellite receiver. If such a receiver supplies LNB voltage to control the antenna (see receiver control mode 2 or mode 3), this device should not be connected to the switched terminal.

Wiring example:



Search satellite

Access via level 1 „Main menu“  and  and  „Satellite settings“ 
See menu tree.

Search satellite for automatic search

In its supplied state, a search satellite for the automatic search is already configured in your Vision system's control unit.

Select the satellite transmitting your preferred channel and that is receivable at your current location.



To receive English-language programmes in Europe, „Astra II“ is recommended in most cases.

Select „Astra 1“, „Hotbird“ or any other satellite (see satellite list).

DiSEqC programming

DiSEqC-ID settings

General procedure:

Press the OK button  to change to the data selection level and use the arrow buttons to set the data. Press the OK button  to confirm.

Then you can set further programming options or exit the data programming and return to the programming option.

Satellite settings / DiSEqC: on / off

Satellites are changed using the receiver's DiSEqC signals. The signals or the DiSEqC ID of the receiver must comply with the ID list saved in the control unit of your Vision system.

16 satellites with a DiSEqC ID number are preset in your Vision system (see table).

The DiSEqC function is active when the DiSEqC option has been enabled or if „DiSEqC“ is set to On with the Vision III control unit being on!

No.	Satellite name		DiSEqC ID
1	Astra 1	19.2° East	1
2	Astra 2	28.2° East	5
3	Astra 3	23.5° East	3
4	HotBird	13.0° East	2
5	Eutelsat 5 West	5.0° West	4
6	Thor/Intel 10-02	1.0° West	7
7	Astra 4	5.0° East	6
8	Eutelsat 16	16.0° East	15
9	Eutelsat 7	7.0° East	9
10	Amos 2/3	4.0° West	13
11	Hispasat	30.0° West	21
12	Telstar 12	15.0° West	17
13	Eutelsat 9	9.0° East	18
14	Eutelsat 33	33.0° East	24
15	Hellas Sat 2	39.0° East	10
16	Türksat 2/3	42.0° East	11

Here you can adopt the default settings of the Vision system into your satellite receiver. Please refer to the manual of your receiver.

Important:

Further DiSEqC functions (DiSEqC V3-ID, DiSEqC Rec-ID, DiSEqC Data) are only accessible if „DiSEqC: on/off“ is set to „on“ !

Satellite settings / DiSEqC V3-ID

This function allows you to display and edit a DiSEqC ID number from the list stored in the Vision system's DiSEqC ID list.

Select a satellite and press the OK button ☒ to confirm. The DiSEqC ID number is displayed. At this point you can set the DiSEqC ID number that your receiver is sending for this satellite.

Satellite settings / DiSEqC Rec-ID

Each time a programme is changed, a DiSEqC-capable receiver sends a unique DiSEqC ID number assigned to the satellite transmitting this programme.

You can view the DiSEqC ID sent by the receiver if you enable the function „DiSEqC Rec-ID“ by pressing the OK button ☒.

Now select at the receiver a programme transmitted by the specified satellite. After a short delay, this satellite's DiSEqC ID will be displayed at the control device.

Now you must assign this number to the same satellite in the Vision system.

Program or edit this DiSEqC ID number as described under „Satellite settings / DiSEqC V3-ID“.

Satellite settings / DiSEqC Data

These data are displayed after the system is switched on by pressing the OK button ☒ and after the receiver has sent the DiSEqC signal to the Vision system.

The information is actually intended for professional users. It represents a complete DiSEqC-ID transfer protocol and is displayed with four data bytes, allowing the identification of any deviations.

What is DiSEqC?

The increasing number of TV satellites gave rise to the demand of being able to receive channels from different satellites.

To facilitate the switching between different satellites, the DiSEqC system has been developed. This system is incorporated in the receiver and generates a switching signal that allows the user to view channels of several satellites by simply changing the TV channel.

The system was initially designed for permanently installed home systems. In such installations, the individual reception units (satellite dishes) were connected to a DiSEqC-capable multi-switch (located under the building roof for obvious reasons) to which the satellite receiver was connected as well.

When the receiver sends a DiSEqC signal to the multi-switch, the switch connects the receiver to the system aimed at the respective satellite.

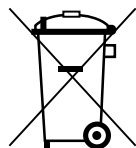
The DiSEqC signals are standardized and are generated by almost all state-of-the-art (DVB-S) satellite receivers.

The Vision system uses this DiSEqC signal to automatically move the antenna into anyone of the up to 16 preset satellite positions. Please mind that the initial configuration of a DiSEqC system is relatively complex and can be a challenge even to experienced users.

When in doubt, have the system configured by a qualified expert. The system will of course only function properly if the preset satellites are actually receivable at your current location.

* DiSEqC (Digital Satellite Equipment Control) is a registered trademark of the satellite operator EUTELSAT.

Notes on the protection of the environment



At the end of its lifecycle, this product must not be disposed of with your normal waste, but instead must be returned to a recycling facility for electric and electronic devices.



This is indicated by the symbol on the product, the operating manual or the packaging.

The materials can be reused in accordance with their identification. By reusing or recycling old equipment or making use of it in other ways you are making an important contribution to protecting our environment.

Please contact your local council to find out where your nearest disposal facility is.

EC End-of-Life Vehicle Directive

The antenna system is certified and intended for use as an accessory of a motor vehicle. The system may be disposed of together with the vehicle in accordance with the End-of-Life Vehicle Directive ELV, 2000/53/EC. The antenna system does not contain any materials rated as hazardous to the environment according to the directive.

Contact & Service

If you have any questions about using your Vision system, please feel free to call us:
Telephone: +49 (0) 72 37 / 48 55- 0 or send an e-mail to: info@ten-haaft.de

Office hours: Monday to Friday from 08 a.m. – 12 p.m. and from 01 p.m. – 04.30 p.m.

We hope you get a lot of enjoyment out of your Vision system.
ten Haaft GmbH

Declaration of Conformity



*Konformitätserklärung
Declaration of Conformity
Déclaration de Conformité*

Wir, der Hersteller

**ten Haaft GmbH
Oberer Strietweg 8
75245 Neulingen
GERMANY / ALLEMAGNE**

erklären hiermit, dass folgende Produkte:

**Oyster 65 Vision III / Oyster 85 Vision III
Oyster 65 CI+ / Oyster 85 CI+
CARO CI+**

sowie deren Varianten, wahlweise mit oder ohne den im Gesamtsystem einzeln ab Werk
verbauten Optionen

SKEW / Single / TWIN

den wesentlichen Anforderungen der folgenden Vorschriften entsprechen und somit ein CE-
Zeichen in Übereinstimmung mit der EMV Richtlinie 2004/108/EC sowie der KFZ Richtlinie
UN/ECE Regulation Nr. 10 Rev.4 (+ Anhang 1) führen.

Die Anlagen erfüllen die folgenden im Einzelnen genannten harmonisierten Normen

EN61000-6-3 : 2007 + A1: 2011
EN61000-6-1 : 2007
ECE R10 Annexes 7-10
ISO 11452-2 (2004)
ISO 7637-2 (2004)

Neulingen, den 22.08.2013

Roman Bittigkoffer
Geschäftsführer

ten Haaft GmbH

Oberer Strietweg 8

75245 Neulingen-Göbrichen

GERMANY

Telephone +49 (0) 72 37/48 55-0

Telefax +49 (0) 72 37/48 55-50

E-mail: info@ten-haaft.com

Office hours:

Monday to Friday 8:00 a.m. – 12:00 a.m.

1:00 p.m. – 4:30 p.m.

www.ten-haaft.com